ARIZONA PRECALCULUS · UNIT 4 · 10 QUESTIONS

Limits, Sequences, and Series — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The limit of $(-1)^n/n$ as n approaches infinity is**

- A 1
- B -1
- C 0
- D does not exist

Understand It with Pulse | Flag a mistake

2 **The sum $\sum_{k=1}^{4} 2k$ is**

- A 20
- B 16
- C 10
- D 24

Understand It with Pulse | Flag a mistake

3 **The limit as x approaches 6 of x^2 - 36/x - 6 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The sum 1 + 3 + 9 + 27 is**

A 36

B 39

C 30

D 40

Understand It with Pulse | Flag a mistake

5 The sum of $3^0 + 3^1 + 3^2 + 3^3$ is

- A 13
- B 39
- C 27
- D 40

Understand It with Pulse | Flag a mistake

6 The sum of the first six terms of 2, 6, 10, … is

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The sum of the first ten positive integers is**

A 55

B 45

C 100

D 50

Understand It with Pulse | Flag a mistake

8 **The sum of the first twenty positive integers is**

A 220

B 210

C 200

D 190

Understand It with Pulse | Flag a mistake

9 **The limit of 3n/2n + 1 as n approaches infinity is**

- A 0
- B $\frac{3}{2}$
- C 1
- D 3

Understand It with Pulse | Flag a mistake

10 **The sum $\sum_{k=1}^{5} k$ is**

- A 15
- B 25
- C 20
- D 10

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	D	**9.**	B
2.	A	**6.**	72	**10.**	A
3.	12	**7.**	A		
4.	D	**8.**	B		

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